

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An end cap assembly for an electric motor comprising:

an outer part supporting a bearing and motor terminals; and

an inner part having

a first brush cage, a second brush cage spaced from the first brush cage by 180°, and provision selectively for locating a third and a fourth brush cage at a desired location circumferentially between the first and second brush cages[[]];

whereby said end cap is used in any of a single speed motor, a two speed motor and a two speed bi-directional motor by including 2, 3 or 4 brush cages, respectively.

2. (Original) An assembly according to claim 1, wherein the first and second brush cages are integrally molded with the inner part.

3. (Original) An end cap assembly according to claim 1, wherein the third and fourth brush cages are locatable angularly spaced between 75° and 90° from the first brush cage.

4. (Original) An end cap assembly according to claim 1, wherein the third and fourth brush cages are fixed to the inner part by an epoxy resin.

5. (Original) An end cap assembly according to claim 1, wherein the third and fourth brush cages are molded resin parts and are joined to the inner part by ultrasonic welding.

6. (Original) An end cap assembly according to claim 1, wherein a detent is formed between the third and fourth brush cages and the inner part, which detent radially locates the third and fourth brush cages so that each of the brush cages has a corresponding part located at an equal radial distance from a central axis of the end cap.

7. (Original) An end cap assembly according to claim 6, wherein the detent means comprises projections on an axially outer mating surface of each of the third and fourth brush cages which engage arcuate grooves in an axially inner locating surface of the inner part and the locating surface is juxtaposed the mounting surface of each of the third and fourth brush cages to set the radial distance while allowing the circumferential spacing to be

determined during fixing of the third and fourth brush cages to the inner part during assembly.

8. (Original) An end cap assembly according to claim 1, wherein the inner and outer parts have noise suppression components.

9. (Original) An end cap assembly according to claim 8, wherein the noise suspension components of the inner part includes chokes connected to shunts of brushes slidably mounted in the brush cages by way of a link connector which makes a mechanical type connection with the choke.

10. (New) An end cap assembly according to claim 1, wherein said first brush cage holds a common brush, since second brush cage holds a first speed brush, said third brush cage selectively holds a second speed brush for one direction and said fourth brush cage selectively holds a second speed brush for a second direction.

11. (New) An end cap assembly for electric motor comprising:
an end cap;
a first brush cage for holding a common brush, and molded with the end cap;

a second brush cage for holding a first speed brush and molded to the end cap;

a location for a third brush cage for holding a second speed brush for a first direction, said third brush cage being selectively fixed to said end cap;

a location for a fourth brush cage for holding a second speed brush for a second direction, said fourth brush cage being selectively fixed to the said end cap;

said end cap assembly selectively including 2, 3 or 4 brushes for use in any of a single speed motor, a two speed motor, and a two speed bi-directional motor.

12. (New) An end cap assembly according to claim 10 wherein the third and fourth brush cages are angularly spaced from 75 to 90° from the first brush cage.